

IN THE CLAIMS

The following is a complete listing of claims with a status identifier in parenthesis.

1. (Cancelled)

2. (Currently Amended) A method of controlling call admission in a communications network, comprising:

calculating a load level as a function of at least one of a ~~change in~~ difference between a current measured power and a previous measured power and a ~~change in~~ difference between a current number of users and a previous number of users; and

controlling call admission based on the calculated load level, wherein said calculating step recursively calculates updated load levels.

3. (Previously Amended) A method of controlling call admission in a communications network, comprising:

calculating a load level as a function of at least one of a change in measured power and a change in number of users; and

controlling call admission based on the calculated load level, wherein said calculating step estimates load level as a function of a measured change in power and a change in number of users.

4. (Original) The method of claim 3, wherein said calculating step estimates load level, L_{new} , by solving:

$$L_{new}(N_{new}, P_{new}) = \frac{N_{new} x (P_{new} - P_{old})}{N_{new} x (P_{new} - P_{old}) + P_{old} x (N_{new} - N_{old})},$$

where N_{new} and N_{old} are current and previous number of users values respectively, and P_{new} and P_{old} are current and previous power measurements respectively.

5. (Currently Amended) A method of controlling call admission in a communications network, comprising:

calculating a load level as a function of ~~at least one of a change in~~ previous and current measured powers ~~and a change in~~ or previous and current number of users; and

controlling call admission based on the calculated load level,

wherein said calculating step recursively updates load level as a function of a ~~change in~~ previous and current number of users.

6. (Currently Amended) A method of controlling call admission in a communications network, comprising:

calculating a load level as a function of ~~at least one of a change in~~ measured powers ~~and a change in~~ or previous and current number of users; and

controlling call admission based on the calculated load level,

wherein said calculating step recursively updates load level as a function of a ~~change in~~ previous and current measured powers.

7. (Original) The method of claim 5, wherein said calculating step estimates load level, L_{new} , by solving:

$$L_{new} = L_{old} \times \frac{N_{new}}{N_{old}},$$

where L_{old} is a previously calculated load level, and N_{new} and N_{old} are current and previous number of users values respectively.

B¹ 8. (Original) The method of claim 6, wherein said calculating step estimates load level, L_{new} , by solving:

$$L_{new} = 1 - \frac{P_{old}}{P_{new}} \times (1 - L_{old}),$$

where L_{old} is a previously calculated load level, and P_{new} and P_{old} are current and previous power measurements respectively.

9. (Previously Amended) The method of claim 6, further comprising:
verifying a calculated load level before using the calculated load level in said controlling step.

10. (Original) The method of claim 9, wherein said verifying step calculates an estimated power measurement, P_{new} , based on the calculated load level, L_{new} , by solving:

$$P_{new} = \frac{P_{old} (1 - L_{old})}{(1 - L_{new})},$$

where P_{old} is a previous power measurement and L_{old} is a previously calculated load level, said verifying step comparing $P_{new'}$ with an actual power measurement, P_{new} , to determine whether L_{new} is reasonably accurate.

11. (Original) The method of claim 10, wherein, when said verifying step indicates that the $P_{new'}$ is not sufficiently close to P_{new} , said calculating step calculates load level by solving:

$$L_{new} = 1 - \frac{P_{old}}{P_{new}} \times (1 - L_{old}) .$$

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12. (Cancelled)

13. (Currently Amended) A system of controlling call admissions in a communications network, comprising:

load calculating means for calculating a load level as a function of ~~at least one of a change in previous and current measured powers and a change in or previous and current~~ number of users; and

control means for controlling call admission based on the calculated load level,

wherein said load calculating means recursively calculates updated load levels.

14. (Previously Amended) A system of controlling call admissions in a communications network, comprising:

load calculating means for calculating a load level as a function of at least one of a change in measured power and a change in number of users; and

control means for controlling call admission based on the calculated load level,

wherein said load calculating means estimates load level as a function of a change in measured power and a change in number of users.

15. (Original) The system of claim 14, wherein said load calculating means estimates load level, L_{new} , by solving:

$$L_{new}(N_{new}, P_{new}) = \frac{N_{new} \times (P_{new} - P_{old})}{N_{new} \times (P_{new} - P_{old}) + P_{old} \times (N_{new} - N_{old})},$$

where N_{new} and N_{old} are current and previous number of users values respectively, and P_{new} and P_{old} are current and previous power measurements respectively.

16. (Currently Amended) A system of controlling call admissions in a communications network, comprising:

load calculating means for calculating a load level as a function of ~~at least one~~ of a change in previous and current measured powers and a change in or previous and current number of users; and

control means for controlling call admission based on the calculated load level,

wherein said load calculating means recursively updates load level as a function of ~~a change in~~ previous and current number of users.

17. (Currently Amended) A system of controlling call admissions in a communications network, comprising:

load calculating means for calculating a load level as a function of ~~at least one~~ ³ ~~of a change in~~ previous and current measured powers ~~and a change in~~ or previous and current number of users; and

control means for controlling call admission based on the calculated load level,

wherein said load calculating means recursively updates load level as a function of ~~a change in~~ [?] previous and current measured powers.

B¹ 18. (Original) The system of claim 16, wherein said load calculating means estimates load level, L_{new} , by solving:

$$L_{new} = L_{old} \times \frac{N_{new}}{N_{old}},$$

where L_{old} is a previously calculated load level, and N_{new} and N_{old} are current and previous number of users values respectively.

19. (Original) The system of claim 17, wherein said load calculating means estimates load level, L_{new} , by solving:

$$L_{new} = 1 - \frac{P_{old}}{P_{new}} \times (1 - L_{old}),$$

where L_{old} is a previously calculated load level, and P_{new} and P_{old} are current and previous received power measurements respectively.

20. (Previously Amended) The system of claim 17, further comprising:
 verifying means for verifying a calculated load level before said control means
 uses the calculated load level.

21. (Original) The system of claim 20, wherein said verifying means
 calculates an estimated power measurement, $P_{new'}$, based on the calculated load
 level, L_{new} , by solving:

$$P_{new'} = \frac{P_{old}(1 - L_{old})}{(1 - L_{new})},$$

where P_{old} is a previous power measurement and L_{old} is a previously
 calculated load level, said verifying means comparing $P_{new'}$ with an actual power
 measurement P_{new} to determine whether L_{new} is reasonably accurate.

22. (Original) The system of claim 21, wherein, when said verifying means
 indicates that the $P_{new'}$ is not sufficiently close to P_{new} , said calculating means
 calculates load level by solving:

$$L_{new} = 1 - \frac{P_{old}}{P_{new}} \times (1 - L_{old}).$$

23. (Currently Amended) the system of claim ~~42~~ 13, further comprising:
 input means for receiving power measurements and number of user values.

24. (Currently Amended) A method of controlling call admission in a
 communications network, comprising:

calculating a load level as a function of ~~a change in~~ previous and current measured powers; and

controlling call admission based on the calculated load level.

25. (Currently Amended) A method of controlling call admission in a communications network, comprising:

calculating a load level as a function of ~~at least one of a change in~~ previous and current number of users; and

controlling call admission based on the calculated load level.

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26. (Currently Amended) A system of controlling call admissions in a communications network, comprising:

load calculating means for calculating a load level as a function of ~~a change in~~ previous and current measured power; and

control means for controlling call admission based on the calculated load level.

27. (Currently Amended) A system of controlling call admissions in a communications network, comprising:

load calculating means for calculating a load level as a function of ~~a change in~~ previous and current number of users; and

control means for controlling call admission based on the calculated load level.